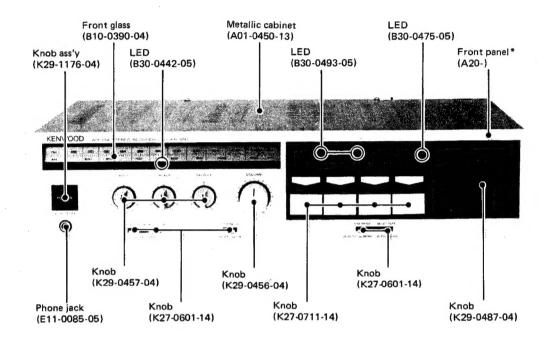
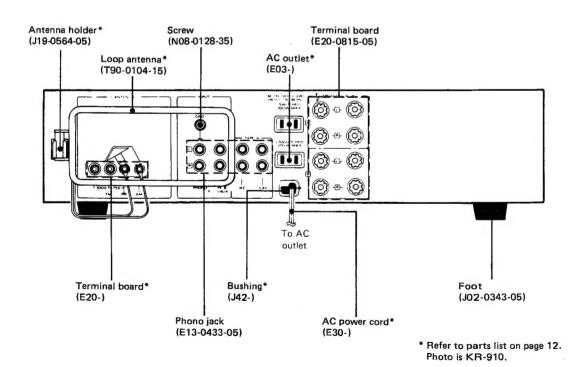
KENWOOD KR-910L

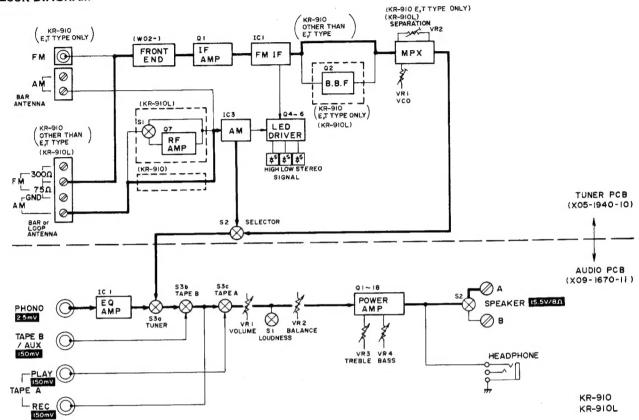
AM-FM STEREO RECEIVER





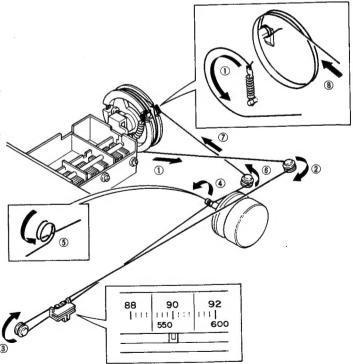
BLOCK DIAGRAM/DIAL CORD STRINGING

BLOCK DIAGRAM



DIAL CORD STRINGING

- 1. Tie the end of the dial cord to the spring. Dress the dial cord in the direction ① through ④.
- 2. Wind the dial cord two turns around the dial shaft starting from its lower side. Dress the dial cord in the direction (\$\old{\sc s}\) through (\$\old{\cap 2}\).
- Wind the dial cord two turns around the dial pulley starting from its upper side. Fix the dial cord to the boss. (8)
- 4. Receive a 90 MHz signal and then mount the dial pointer at the 90 MHz position of the dial calibrations.



ADJUSTMENT

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
F	M SECTION		INPUT SELECTOR	FM MODE: STEREO	1	<u> </u>	
1	DISCRIMINATOR (1)	. (A) 98.0 MHz 1 kHz ± 75 kHz dev	(B)	MONO 98.0 MHz	TUNING KNOB	Adjust the tuning knob so that the same amount of noise is observed at the top and bot- tom of the output waveform with a weak signal.	
2	DISCRIMINATOR (2)	(A) 98.0 MHz 1 kHz ± 75 kHz dev 60 dB (ANT input)	Connect a DC voltmeter across R18.	MONO 98.0 MHz	L6	OV	(a)
3	DISCRIMINATOR (3)	(A) 98.0 MHz 1 kHz ±75 kHz dev 60 dB (ANT input)	(8)	MONO 98.0 MHz	L7	Minimum distortion	
			Repeat alignment	s 2 and 3 several times.		†	
4	vco	(A) 98.0 MHz 0 dev 60 dB (ANT input)	Connect a resistor (330 k.Q) to the junction of VR1 and R46 and connect a frequency counter via an AC voltmeter.	98.0 MHz	VR1	Frequency: 76.00 kHz	(b)
			VCO: Voltage	Controlled Oscillator			
5	SEPARATION	(C) 98.0 MHz 1 kHz ± 68.25 kHz dev Selector: L or R Pilot: ± 6.75 kHz dev 60 dB (ANT input)		98.0 MHz	VR2	Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal.	
6	DISTORTION (STEREO)	(C) 98.0 MHz 1 kHz ±68.25 kHz dev Selector: L or R Pilot: ±6.75 kHz dev 60 dB (ANT input)	(B)	98.0 MHž	T1 (Front end)	Minimum distortion	
A	M SECTION (K	(R-910) Keep	the loop antenna instal	led. INPUT SELECT	TOR: AM		
(1)	IF TRANSFORMER	(D) 1000 kHz 400 Hz, 30% mod	(8)	1000 kHz	L8	Maximum amplitude and symmetry of the oscilloscope display.	
(2)	RF ALIGNMENT (1)	(D) 600 kHz 400 Hz, 30% mod	(B)	600 kHz	L2, 3	Maximum amplitude and symmetry of the oscilloscope display.	
(3)	RF ALIGNMENT (2)	(D) 1400 kHz 400 Hz, 30% mod	(B)	1400 kHz	TC1, 2 (Front end)	Maximum amplitude and symmetry of the oscilloscope display.	
			Repeat alignments	(2) and (3) several times.			
A	M-MW SECTI	ON (KR-910L)	SELE	CTOR: AM			
(1)	IF TRANSFORMER	(D) 1000 kHz 400 Hz, 30% mod	(B)	1000 kHz	L8	Maximum amplitude and symmetry of the oscilloscope display.	
(2)	RF ALIGNMENT (MW) (1)	(D) 600 kHz 400 Hz, 30% mod	(B)	600 kHz	AM ferrite bar antenna (A) L3	Maximum amplitude and symmetry of the oscilloscope display.	
(3)	RF ALIGNMENT (MW) (2)	(D) 1400 kHz 400 Hz, 30% mod	(B)	1400 kHz	TC1, 2 (Front end)	Maximum amplitude and symmetry of the oscilloscope display.	
			Repeat alignments	(2) and (3) several times.			
Δ	M-LW SECTION	ON (KR-910L)	SELEC	TOR: AM, LW			
(4)	RF ALIGNMENT (LW) (1)	(D) 170 kHz 400 Hz, 30% mod	(B)	170 kHz	AM ferrite bar antenna (B) L4	Maximum amplitude and symmetry of the oscilloscope display.	
(5)	RF ALIGNMENT (LW) (2)	(D) 325 kHz 400 Hz, 30% mod	(B)	325 kHz	TC1, 2	Maximum amplitude and symmetry of the oscilloscope display.	
(5)				325 kHz s (4) and (5) several times.			

REGLAGE

Ν°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGALAGE DU AMPLI-TUNER	POINTS L'ALIGNMENT	ALIGNER POUR	FIG
S	ECTION MF		SELECTEUR D	ES ENTRESS: FM	<u> </u>		
1	DISCRIMINATEUR (1)	(A) 98,0 MHz 1 kHz ± 75 kHz dév	(B)	MONO 98,0 MHz	Bouton d'accord	Ajuster le bouton d'accord de façon que la même quantité du bruit puisse être observe au sommet et en bas de la forme d'onde de sortie sous des conditions d'alimentation de signal faible.	
2	DISCRIMINATEUR (2)	(A) 98,0 MHz 1 kHz ± 75 kHz dév 60 dB (Entrée ANT)	Connecter un voltmètre CC sur R18.	MONO 98,0 MHz	L6	ov	(a)
3	DISCRIMINATEUR (3)	SCRIMINATEUR 98.0 MHz (B) MONO		L7	Distorsion minimale		
			Répéter les points	2 et 3 plusieurs fois.			
4	OSCILLATEUR CONTROLE PAR LA TENSION	(A) 98,0 MHz O dév 60 dB (Entrée ANT)	Connecter une re- sistance (330 kΩ) à la jonction de VR1 et R46 et connecter un compteur de fré- quence par un volt- mètre CA.	98,0 MHz	VR1	Fréquence: 76,00 kHz	(b)
5	SEPARATION	(C) 98,0 MHz 1 kHz ± 68,25 kHz dév Selection: L ou R Signal pilote: ± 6,75 kHz dév 60 dB (Entrée ANT)	(B)	98,0 MHz	VR2	Diaphonie minimale. Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales.	
6	DISTORSION (STEREO)	(C) 98,0 MHz 1 kHz ± 68,25 kHz dév Selection: L ou R Signal pilote: ± 6,75 kHz dév 60 dB (Entrée ANT)	(B)	98,0 MHz	T1 (Tête H.F.)	Distorsion minimale	
5	ECTION MA (K	(R-910) Laiss	er l'antenne bouche MA	installée. SELECTI	EUR: AM		
(1)	TRANSFORMATEUR F.I.	(D) 1000 kHz 400 Hz, 30% mod	(B)	1000 kHz	L8	Amplitude et symétrie maximale de láffichage de l'oscilloscope.	
(2)	ALIGNEMENT H.T.	(D) 600 kHz 400 Hz, 30% mod	(B)	600 kHz	L2, 3	Amplitude et symétrie maximale de láffichage de l'oscilloscope.	
(3)	ALIGNEMENT H.T.	(D) 1 400 kHz 400 Hz, 30% mod	(B)	1400 kHz	TC1, 2 (Tête H.F.)	Amplitude et symétrie maximale de láffichage de l'oscilloscope.	
			Répéter les points	(2) et (3) plusieurs fois.			
_ 5	SECTION MA-O	M (KR-910L)	SELEC	TEUR: AM			
(1)	TRANSFORMATEUR F.I.	(D) 1000 kHz 400 Hz, 30% mod	(8)	1000 kHz	L8	Amplitude et symétrie maximale de láffichage de l'oscilloscope.	
	ALIGNEMENT H.T. (MW) (1)	(D) 600 kHz 400 Hz, 30% mod	(B)	600 kHz	Antenne MA (A) L3	Amplitude et symétrie maximale de láffichage de l'oscilloscope.	
(2)		(2)		1400 kHz	TC1, 2 (Tête H.F.)	Amplitude et symétrie maximale de láffichage de l'oscilloscope.	
(2)	ALIGNMENT H.T. (MW) (2)	(D) 1 400 kHz 400 Hz, 30% mod	(B)		(10001111)	103cmoscope.	
(3)	(MW) (2)	1400 kHz 400 Hz, 30% mod		nts (2) et (3) plusieurs fo		rosemoscope.	
(3)		1400 kHz 400 Hz, 30% mod	Repéter les aligneme		is.		
(3)	(MW) (2)	1400 kHz 400 Hz, 30% mod	Repéter les aligneme	nts (2) et (3) plusieurs foi		Amplitude et symétrie maximale de láffichage de l'oscilloscope.	

ABGLEICH

NR.	GEGENSTAND	EINGANGS- EINSTELLUNG	AUSGANGS- EINSTELLUNG	RECEIVER- EINSTELLUNG	ABGLEICH- PUNKTE	ABGEICHEN FÜR	ABB
U	KW-EMPFANG	GSABTEILUNG	EINGAN	IGSUMSCHALTER: FM			
1	DISKRIMINATOR (1)	(A) 98.0 MHz 1 kHz ± 75 kHz Hub	(B)	MONO 98,0 MHz	Abstimmknopf	Den Abstimmknopf so einstel- len, daß an der oberen und unteren Grenze der Ausgangs wellenform bei schwachem Signal dasselbe Gerausch auftritt.	
2	DISKRIMINATOR (2)	(A) 98,0 MHz 1 kHz ± 75 kHz hub 60 dB (ANT-Eingang)	Einen Gleichspannungs- messer über R18.	MONO 98,0 MHz	L6	OV	(a)
3	DISKRIMINATOR (3)	(A) 98,0 MHz 1 kHz ± 75 kHz Hub 60 dB (ANT-Eingang)	(B)	MONO 98,0 MHz	L7	Minimaler Kirrfaktor	
			Abstimmungen 2 und 3	3 mehrere Male wiederhol	en.		
4	SPANNUNGS- GEREGELTER OSZILLATOR	(A) 98,0 MHz 0 Hub 60 dB (ANT-Eingang)	Einen Widerstand (330 kΩ) zur Ver- bindung von VR1 und R46 anschlie- ßen und Eine Fre- quenzmesser über einem Wechselspan- nungsmesser ans- chließen.	98,0 MHz	VR1	Frequenz: 76,00 kHz	(b)
5	STEREO KANAL TRENNUNG	(C) 98,0 MHz 1 kHz ±68,25 kHz Hub Wähler: L oder R Pilotton: ±6,75 kHz Hub 60 dB (ANT-Eingang)	(B)	98,0 MHz	VR2	Minimales Übersprechen. Eine Ausgleichrege lung kann notwendig sein, falls links-zu- rechts und rechts-zu-links. Trennungen ungleich sind.	
6	KLIRRFAKTOR (STEREO)	(C) 98,0 MHz KLIRRFAKTOR 1 kHz ± 68,25 kHz Hub		98,0 MHz	T1 (Frontende)	Minimaler Klirrfaktor	
N	W-EMPFANG	SABTEILUNG (KI	R-910) Die M	W-Rahmenantenne angeb	racht lassen.	WÄHLER: AM	
(1)	ZF-ÜBERTRAGER	(D) 1000 kHz 400 Hz, 30% mod	(B)	1000 kHz	L8	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(2)	HF-ABGLEICH	(D) 600 kHz 400 Hz, 30% mod	(B)	600 kHz	L2, 3	Maximale Amplitude und Symmetrie des Oszilloskopbildes	
(3)	HF-ABGLEICH (2)	(D) 1 400 kHz 400 Hz, 30% mod	(B)	1400 kHz	TC1, 2 (Frontende)	Maximale Amplitude und Symmetrie des Oszilloskopbildes	
		,	Abstimmungen (2) und (3) mehrere Male wiederho	olen.		
N	W-EMPFANG	SABTEILUNG (KE	R-910L)	WÄHLER: AM		T	
(1)	ZF-ÜBERTRAGER	(D) 1000 kHz 400 Hz, 30% mod	(B)	1000 kHz	L8	Maximale Amplitude und Symmetrie des Oszilloskopbildes.	
(2)	HF-ABGLEICH (MW) (1)	(D) 600 kHz 400 Hz, 30% mod	(B)	600 kHz	MW- Ferritantenne (A) L3	Maximale Amplitude und Symmetrie des Oszilloskopbildes	
(3)	HF-ABGLEICH (MW) (2)	(D) 1400 kHz 400 Hz, 30% mod	(B)	1400 kHz	TC1, 2 (Frontende)	Maximale Amplitude und Symmetrie des Oszilloskopbildes	
			Abstimmungen (2) und (3) mehrere Male wiederho	olen.		
L	W-EMPFANGS	SABTEILUNG (KR	910L)	WÄHLER: AM, LW	·	. •	
(4)	HF-ABGLEICH (LW) (1)	(D) 170 kHz 400 Hz, 30% mod	(B)	170 kHz	MW- Ferritantenne (B) L4	Maximale Amplitude und Symmetrie des Oszilloskopbildes	
(5)	HF-ABGLEICH (LW) (2)	(D) 325 kHz 400 Hz, 30% mod	(B)	325 kHz	TC1, 2	Maximale Amplitude und Symmetrie des Oszilloskopbildes	

ADJUSTMENT/REGLAGE/ABGLEICH

FM FRONT END

When the FET and/or IC of the FM front end are replaced, perform the following adjustment.

- (1) Set the FM-SG to 108 MHz, 1 kHz Mod, ±75 kHz Dev and connect it to the antenna terminal of the receiver.
- (2) Set the dial pointer at 108 MHz.
- (3) Adjust TC3, TCR and TCA so that the maximum output is derived.

When the FM front end is replaced, perform the following adjustment.

- (1) Set the FM-SG to 90 MHz, 1 kHz Mod, ±75 kHz Dev 60 dB and connect it to the antenna terminal of the receiver.
- (2) Receive the FM-SG signal.
- (3) Fix the dial pointer at 90 MHz.

IDLE CURRENT

The idle current is determined by the resistance between the base and emitter of Q9 (Q10). In this model, fixed resistors R33 (R34) and R35 (R36) are used, instead of a trimming potentiometer, to adjust the idle current to $20\sim100$ mA. Some units employ R33 (R34) or R35 (R36) and some units employ both R33 (R34) and R35 (R36).

When replacing the power or drive transistors, always check that the idle current is $20 \sim 100$ mA.

CHECKING PROCEDURE

- (1) Set the volume control to a minimum.
- (2) Connect a DC voltmeter between the collectors of Q15 (Q16) and Q17 (Q18).
- (3) Confirm that the DC voltmeter reading is $8.8 \sim 44$ mV.
- (4) If the DC voltmeter reading is not as specified, change the resistance between the base and emitter of Q9 (Q10) to obtain the specified value.

PARTIE FRONTALE FM

Si l'on remplace le FET et/ou IC, il convient d'effectuer le réglage suivant

- (1) Régler FM-SG sur 108 MHz, 1 kHz Mod, ±75 kHz Dev et connecter à la borne d'antenne du amplituner.
- (2) Régler l'aiguille du cadran à 108 MHz.
- (3) Régler TC3, TCR et TCA en sorte que la sortie maximale soit obtenue.

Si l'on remplace la partie frontale FM, il convient d'effectuer le réglage suivant.

- Régler FM-SG à 90 MHz, 1 kHz Mod, ±75 kHz Dev 60 dB et le connecter à la borne d'antenne du récepteur.
- (2) Recevoir le signal FM-SG.
- (3) Fixer l'aiguille du cadran à 90 MHz.

COURANT DE POLARISATION

La courant de polarisation est déterminé par la résistance entre la base et l'émetteur de Q9 (Q10). Ce modèle est équipé des résistors non réglables R33 (R34) et R35 (R36), au lieu d'un potentiomètre trimmer, pour régler le courant de polarisation sur 20 ~ .100 mA. Certains dispositifs sont équipés de R33 (R34) ou R35 (R36) et d'autres sont équipés à la fois de R33 (R34) et R35 (R36).

Lors du remplacement du transistor d'alimentation ou du transistor d'entraînement, toujours s'assurer que le courant de polarisation est de $20 \sim 100$ mA.

METHODE DE VERIFICATION

- Régler le contrôle du volume sur le minimum.
- (2) Connecter un voltmètre CC entre les collecteurs de Q15 (Q16) et Q17 (Q18).
- (3) S'assurer que la lecture du voltmètre CC indique $8.8 \sim 44$ mV.
- (4) Si la lecture du voltmètre CC n'est pas comme spécifiée, changer la résistance entre la base et l'émetteur de Q9 (Q10) pour obtenir la valeur spécifiée.

UKW-FRONTENDE

Beim Auswechseln des FETs und/oder des ICs, die Einstellung wie folgt vornehmen.

- (1) Den UKW-Signalgenerator auf 108 MHz, 1 kHz Modulation und ±75 kHz Hub einstellen und mit der Antennenklemme des steuergeräts verbinden.
- (2) Den Skalenzeiger auf 108 MHz stellen.
- (3) TC3, TCR und TCA so einstellen, daß der Höchstausgang erhalten wird

Beim Auswechseln des Frontendes, die Einstellung wie folgt vornehmen.

- (1) Den UKW-Signalgenerator auf 90 MHz, 1 kHz Modulation ±75 kHz Hub, und 60 dB einstellen und mit der Antennenklemme des Steuergeräts verbinden.
- (2) Den Steuergeräts so einstellen, daß das Meßsendersignal empfangen wird, während der Skalenzeiger auf 90 MHz zeigt.

LEERLAUFSTROM

Der Leerlaufstrom wird durch den Wiederstand zwischen der Basis und dem Emitter von Q9 (Q10) bestimmt. Dieses Modell ist mit Festwiederstand R33 (R34) und R35 (R36) ausgestattet, an Stelle von einem Trimmpotentiometer, um den Leerlaufstrom auf 20 ~ 100 mA einzustellen. Einige Modelle sind mit R33 (R34) und R35 (R36) zusammen.

Beim Wechseln des Krafttransistors oder des Antriebstransistors, vergewissern Sie Sich immer daß der Leerlaufstrom 20 \sim 100 mA ist.

<PRÜFUNGSGANG>

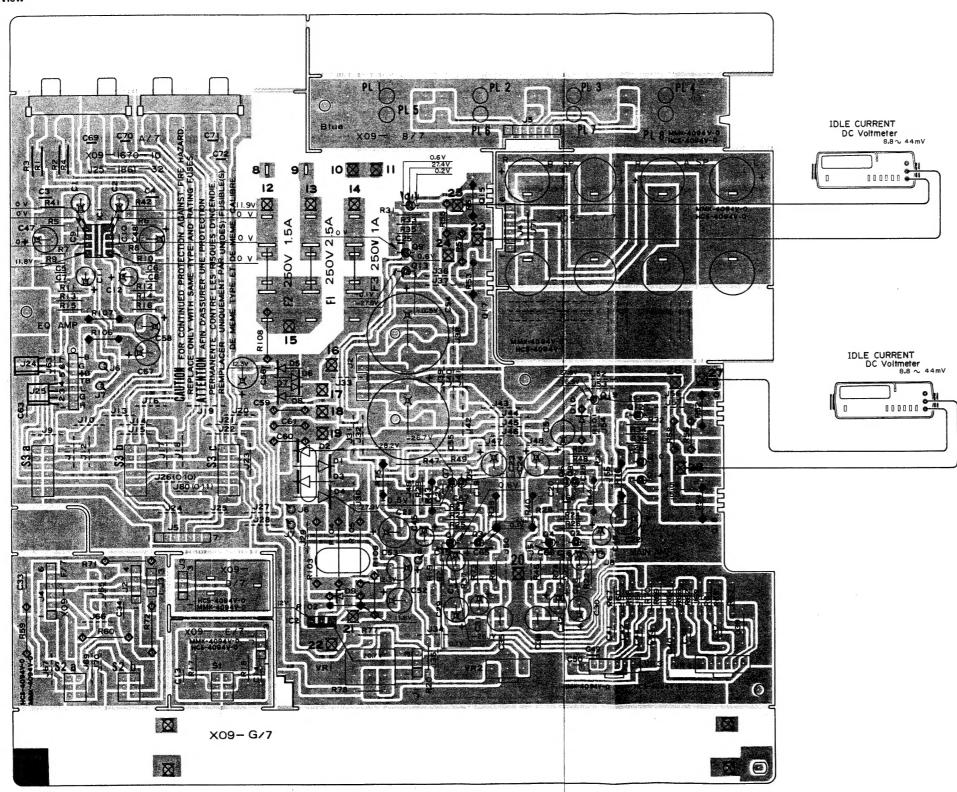
- (1) Den Lautstärkeknopf aufs Minimum stellen.
- (2) Ein Gleichsannungsmesser zwischen den Kollektorer von Q15 (Q16) und Q17 (Q18) anschließen.
- (3) Sich vergewissern, daß der Gleichspannungsmesser 8,8 ~ 44 mV anzeigt.
- (4) Falls die Anzeige des Gleichspannungsmesser nicht wie angegeben ist, den Wiederstand zwischen der Basis und dem Emitter von Q9 (Q10) ändern um den angegebenen Wert zu erhalten.

KR-910/910L KR-910/910L PC BOARD TUNER (X05-1940-10) Component side view AC VOLTMETER (a), DC voltmeter (b) FREQUENCY COUNTER AM-SG A G (D) 000000 FM-SG AG (A) FM-SG MPX-SG A G (C) HCS-4094V-0 GND **75**Ω 300Ω 0

KR-910/910L KR-910/910L

PC BOARD

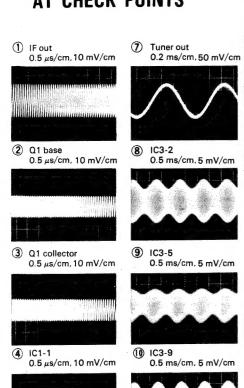
AUDIO (X09-1670-11) Component side view



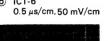
WAVEFORMS AT CHECK POINTS

KENWOOD

AM-FM STER

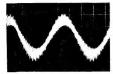








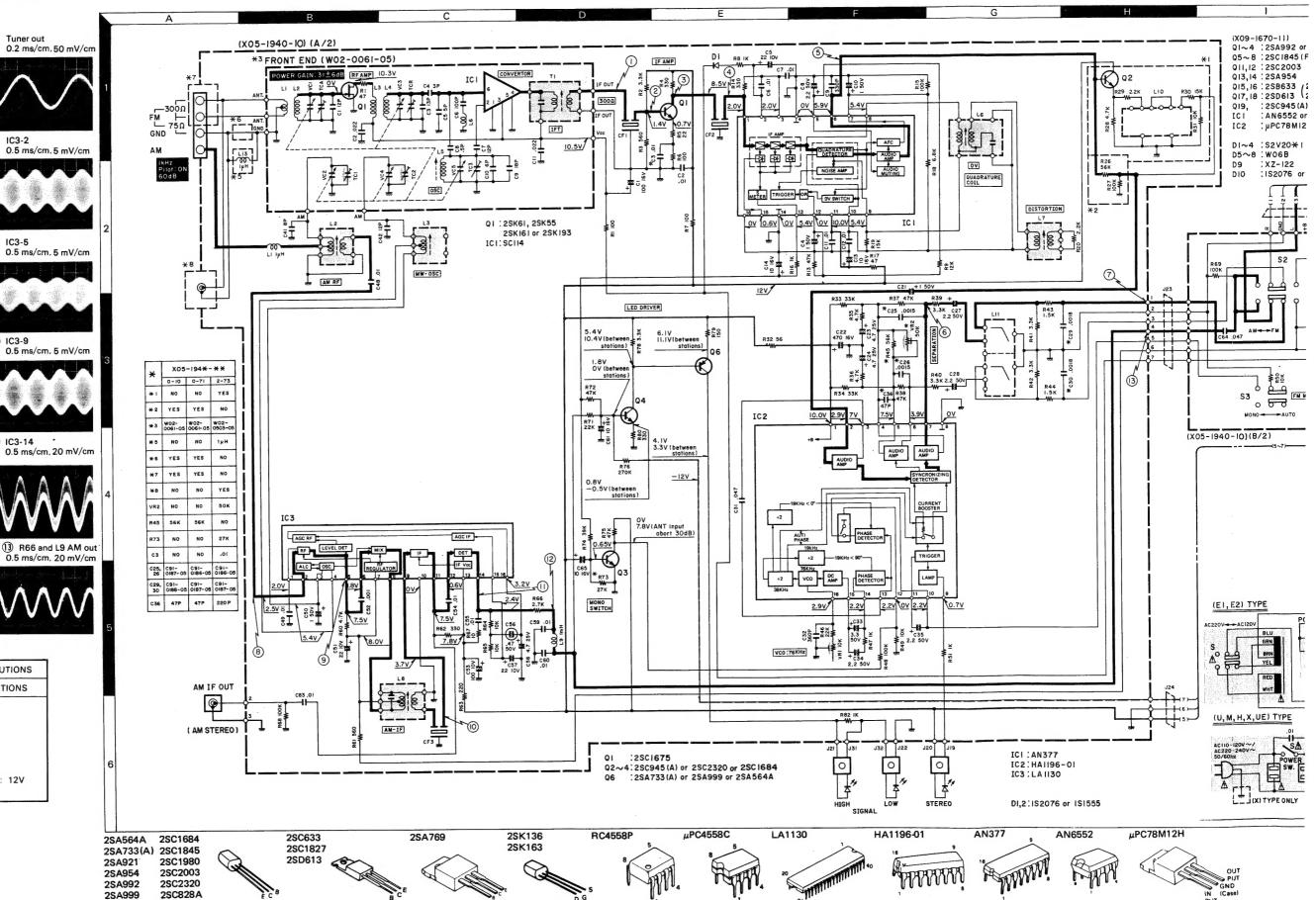
6 IC2-7 0.2 ms/cm, 0.1V/cm



2SC1675

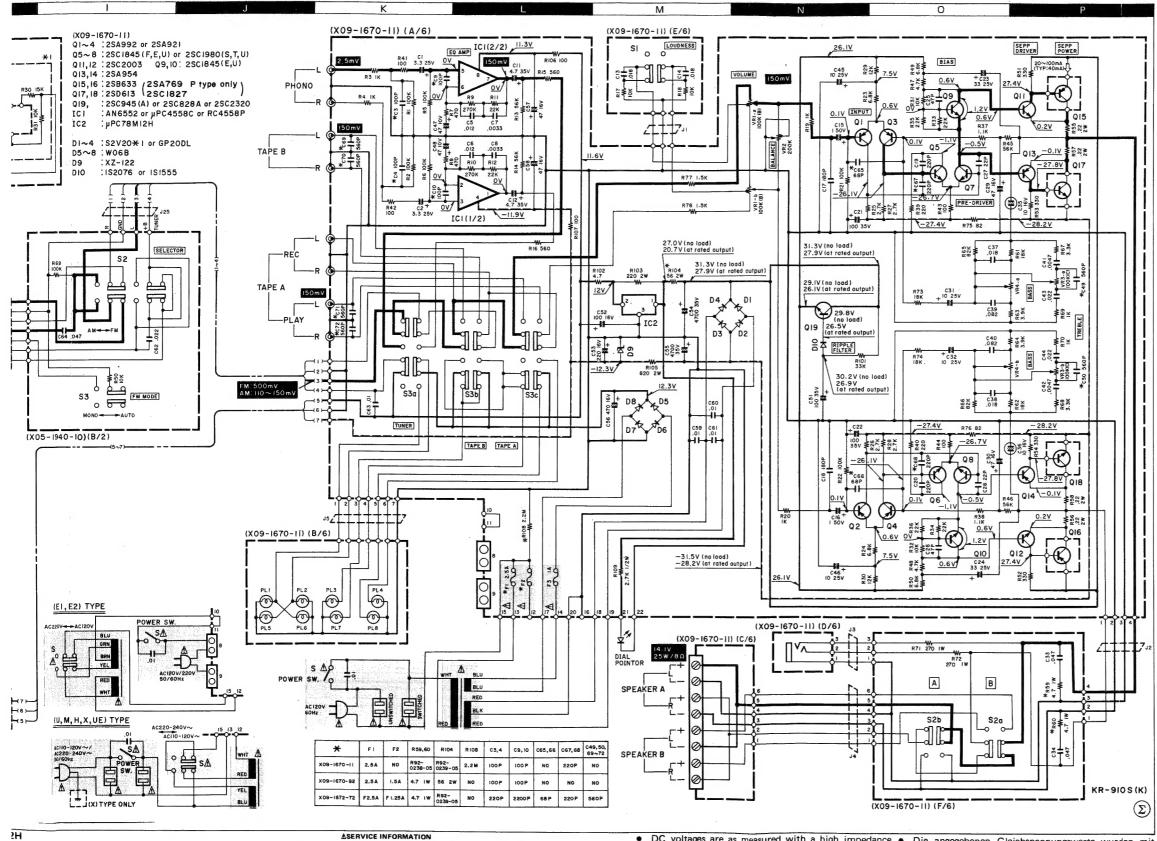
2SC945(A)

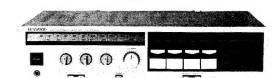
	_
SEMICONDU	CTOR SUBSTITUTIONS
NAME	SUBSTITUTIONS
X09-167	
Q5 ~ 8	2SC1775
Q11, 12	2SC1735
Q13, 14	2SA850
Q15, 16	2SB690 (C)
Q17, 18	2SD726 (C)
D9	Zener voltage: 12V
IC1	NJM4558



M-FM STEREO RECEIVER

KR-910





SPECIFICATION

Audio Section

Power Output

Both Channels Driven	
Into 8 ohms at 1,000 Hz	31 W+31 W
into 4 ohms at 1,000 Hz	31 W+31 W
Dynamic Power Output at 4 ohms	100 W
Total Harmonic Distortion (40 Hz to 20	.000 Hz from AUX)
rated power into 8 ohms	0.09%
1 watt power into 8 ohms	0.05%
Intermodulation Distortion (60 Hz:7 kH	z = 4:1 SMPTE)
rated power into 8 ohms	
1 watt power into 8 ohms	
Damping Factor	30 at 1 kHz, 8 ohms
PHONO	2.5 mV// 50k ohms
TAPE, AUX	
Signal to Noise Ratio (A weighted)	o meroo k omina
PHONO	72 dB for 2.5 mV input
TAPE, AUX	100 dB for 150 mV input
Maximum PHONO Input Level	
at 1,000 Hz	120 mV (RMS), THD 0.05%
Frequency Response	2011 20
PHONO RIAA Standard Curve	20 Hz to 20,000 Hz ±0.3 d
TAPE, AUX	10 Hz to 100 kHz +0 dB, -3
BASS	+8 dB at 100 Hz
TREBLE	±8 dB at 10 kHz
TREBLE	+ 10 dB at 100 Hz
Output Level/Impedance	
TAPE REC Out (Pin)	150 mV/560 ohms
FM Tuner Section	
Usable Sensitivity	10.8 dBf (1.9 aV)
50 dB Quieting Sensitivity	3.0 оы (1.3 дү)
50 dB Quieting Sensitivity Mono	17.2 dBf (4.0 aV)
Stereo	37.2 dBf (40 µV)
Stereo	
Mono	75 dB
Stereo	70 dB
Total Harmonic Distortion at 1,000 Hz	0.10
Mono	
Frequency Response	
· · · · · · · · · · · · · · · · · · ·	+0.2 dB, -0.2 dB
Capture Ratio	1.5 dB
Image Rejection Ratio	50 dB
Spurious Response Ratio	80 dB
IF Response Ratio	90 dB
Alternate Channel Selectivity	45 dB at 400 kHz
AM Suppression Ratio	65 dB
Stereo Separation Ratio	40 dB at 1,000 Hz
	35 dB at 50 Hz to 10 kHz
Subcarrier Product Ratio	45 dB
Antenna Impedance	300 ohms balanced and
FM Frequency Range	87.5 MHz to 108 MHz
AM Tuner Section	
Usable Sensitivity	12.1/
Signal-to-Noise Ratio	I 3µV
Image Rejection	45 dB
Selectivity	25 dB
General	
Power Consumption	1 1 A (III and CCA)
· one consumption	1.1 A (UL and CSA) 120 W (8 ohms at rated pov
	22 Mt (No Cinnell
AC Outlet	Switched 1 Unswitched 1
Dimensions	W 440 mm (17-5/16")
	11 100 1111 111 0110 1
	H 109 mm (4-19/64")
Weight (Net)	D 250 10 51/045

Measured pursuant to Federal Trade Commission's Trade Regulation rule on Power Output Claims for Amplifier in U.S.A.

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

And Indicates safety critical component (S).

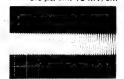
• DC voltages are as measured with a high impedance • Die angegebenen Gleichspannungswerte wurden mit voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

· Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

einem hochohmigen. Voltmeter gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geraten u.U. gerinafüaia.



② Q1 base 0.5 μs/cm, 10 mV/cm



3 Q1 collector 0.5 μs/cm, 10 mV/cm



0.5 µs/cm, 10 mV/cm



⑤ IC1-6 0.5 µs/cm, 50 mV/cm



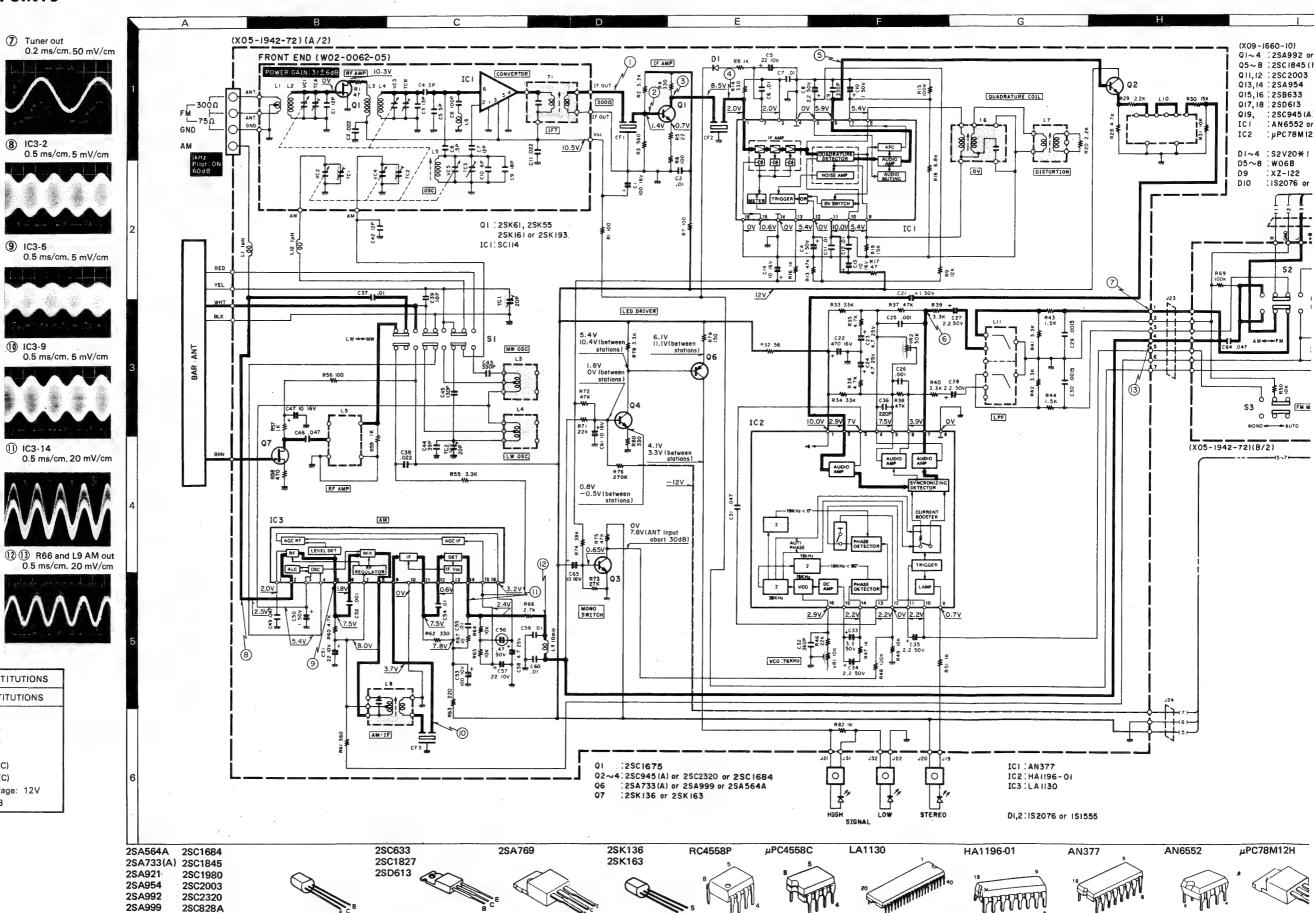
6 IC2-7 0.2 ms/cm, 0.1V/cm



2SC1675

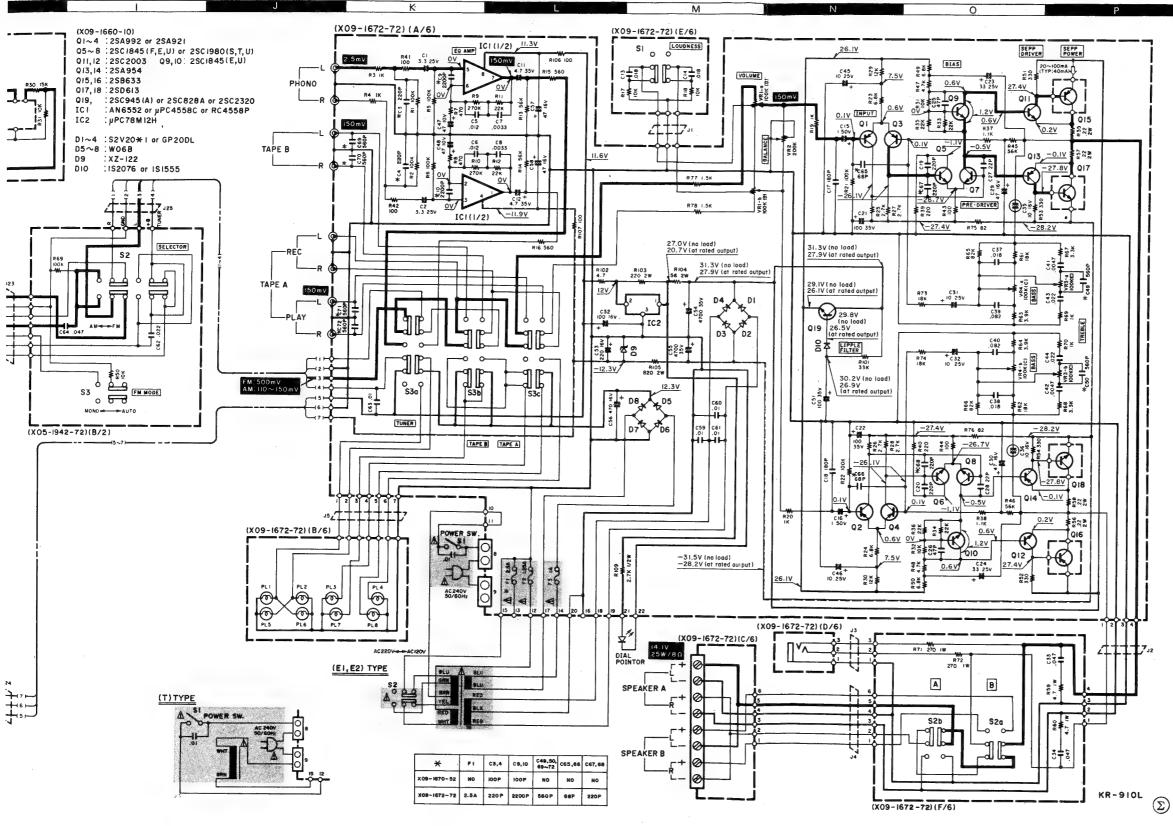
2SC945(A)

SEMICONDUC	TOR SUBSTITUTIONS		
NAME	SUBSTITUTIONS		
X09-167			
Q5 ~ 8	2SC1775		
Q11, 12	2SC1735		
Q13, 14	2SA850		
Q15, 16	2SB690 (C)		
Q17, 18	2SD726 (C)		
D9	Zener voltage: 12V		
IC1	NJM4558		



AM-FM STEREO RECEIVER

KR-910L

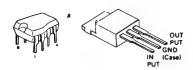


the same the state of the same th **沙沙沙**

SPECIFICATION

Reted covers autout	
Rated power output 8 ohms at 40 Hz to 20 kHz	
o orans at 40 Hz to 20 KHz	
no more than 0.09% T.H.D. (FT	C130 W+30 W
4 ohms at 63 Hz to 12.5 kHz	
no more than 0.7% T.H.D. (IEC)	30 W+30 W
Total harmonic distortion	
Rated power output into 8 ohms	0.09%
Intermodulation distortion	0.04%
Frequency response	
	+0 dB, -3 dB
S/N Weighted: Rated output power	(IEC-A)
() = Unweighted, at 50 mV (Di	
PHONO	72 dB (55 dB)
TAPE, AUX	100 dB (60 dB)
Damping factor at 8 ohms, 1 kHz	30
Input sensitivity/impedance	
PHONO	2.5 mV/50 kΩ
TAPE, AUX	150 mV/50 k û
Tone control	
Bass 100 Hz	±8 dB
Trebie 10 kHz	+8 dB
Loudness control (- 30 dB)	+ 10 dB at 100 Hz
FM tuner section	
Sensitivity at 75 ohms	
Mono: S/N 26 dB, 40 kHz dev	0.9 #V
Stereo: S/N 46 dB, 46 kHz dev	25 #V
Limiting level	
- 3 dB Point, 40 kHz dev	0.9 µV
Frequency response	
	+0.2 dB, -2.0 dB
Total harmonic distortion	7 0.2 db, -2.0 db
Mono: 1 kHz, 40 kHz dev	0.15 %
Stereo: 1 kHz, 46 kHz dev	0.3 %
S/N Weighted (IEC-A)	0.0 70
Mono: 40 kHz dev., 1 mV input	70 dB
Stereo: 46 kHz dev., 1 mV input	66 4B
S/N Ratio (IHF)	05 UB
Mono: 75 kHz dev., 1 mV input	7E 4B
Stereo: 75 kHz dev., 1 mV input	75 0B
TO KILL OBY., I HIV RIPLY	70 ab
FM stereo separation : 1 mV input (DIM\
250 Hz	
1 kHz	40 dB
6.3 kHz	40 db
12.5 kHz	30 40
Image rejection ratio	30 08
Selectivity	50 08
300 kHz, 20 dB input	70 - 20
IF rejection ratio	70 08
AM suppression ratio	90 dB
Sperious reconses serie	65 68
Spurious response ratio	80 dB
MW tuner section	1.5 dB
Sensitivity S/N 20 dB	13 µV
S/N Ratio: 1 mV input	
Image rejection ratio	45 dB
1304 4	
LW tuner section	
Sensitivity S/N 20 dB	14 µ∨
S/N Ratio: 1 mV input	48 dB
Image rejection ratio	55 dB
General	
Power consumption	
IEC	
Rated power at 8 ohms	120 W
	120 W
Rated power at 8 ohms No signal	120 W 22 W
Rated power at 8 ohms	120 W 22 W

N6552 μPC78M12H



ASERVICE INFORMATION

CAUTION: For continued safety, replace safety

To reduce the risk of electric shock, leakagecritical components only with manufacturer's
current or resistance measurements shall be
recommended parts (refer to parts list).

Alndicates safety critical component (S).

- DC voltages are as measured with a high impedance
 Die angegebenen Gleichspannungswerte wurden mit voltmeter. Values may vary slightly due to variations einem hochohmigen. Voltmeter gemessen. Dabei between individual instruments or/and units.
- · Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.
- schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen instrumenten oder Geraten u.U. geringfügig.

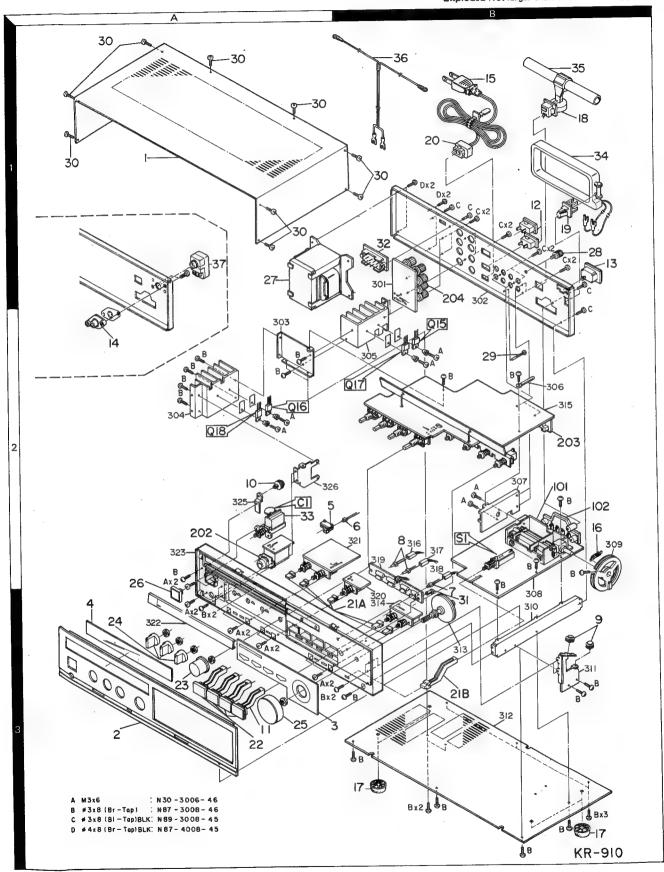
Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

EXPLODED VIEW

Exploded No. larger than 300 are not supplied.





* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

	Ref. No.	Address		Parts No.	Description	Desti-	Re-
	參照番号	位 置	Parts 新	部品番号	部品名/規格		mark 備考
	*********			KR-	910/910L		
1222		1A 3A 3A 3A 3A		A01-0450-13 A20-3534-02 A20-3534-02 A20-3535-02 A20-3536-02	METALLIC CABINET FRØNT PANEL FRØNT PANEL FRØNT PANEL FRØNT PANEL	KPUMH UEXE T	
34567		3A 3A 2A 2B 3B		B03-0296-03 B10-0390-04 B21-0056-04 B30-0442-05 B30-0475-05	DRESSING PANEL FRONT GLASS DIAL POINTER LED (RED) LED (RED)		
8		2B		B30-0493-05 B46-0092-03 B46-0093-03 B46-0094-03 B46-0095-03	LED WARRANTY CARD WARRANTY CARD WARRANTY CARD WARRANTY CARD	K P UH <u>UE</u> UH <u>UE</u>	
1 1 1 1 1				B46-0096-03 B46-0097-03 B46-0098-03 B50-4749-00 B50-4749-00	WARRANTY CARD WARRANTY CARD WARRANTY CARD INSTRUCTION MANUAL INSTRUCTION MANUAL	X T EE KPUMH UEX	
	•			B50-4750-00 B50-4751-00 B50-4752-00 B50-4753-00 B50-4754-00	INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL INSTRUCTION MANUAL	PMXE E M T E	
_				B50-4755-00 B59-0092-00	INSTRUCTION MANUAL SERVICE DIRECTORY	E UH <u>UE</u>	
CC	001 001 001 002-004			C91-0023-05 C91-0023-05 C91-0079-05 CK45F1H103Z	CERAMIC 0.01UF AC250V CERAMIC 0.01UF AC250V CERAMIC 0.01UF AC125V CERAMIC 0.01UF Z	UMH <u>UE</u> X KPTE <u>E</u> E	
	0	3B 2A 3A		D15-0174-05 D15-0175-05 D21-0486-04	PULLEY ASSY PULLEY ASSY EXTENSION SHAFT		
1	2	18 18 18 18 2A		E03-0036-05 E03-0036-05 E03-0041-05 E04-0004-05 E04-0006-05	AC NUTLET AC NUTLET AC NUTLET CNAXIAL RECEPTACLE CNAXIAL RECEPTACLE	KUMH <u>UE</u> X P T <u>E</u> E	
1 1 1	5	18 18 19 18 18		E30-0181-05 E30-0459-05 E30-0587-15 E30-0649-05 E30-0780-05	AC POWER CORD	K EE X P	
1	5	18		E30-0912-05	AC POWER CORD	UNHUE	
1	.6	2B		601-0044-14	EXTENSION SPRING		
-	• • •			H01-4782-04 H01-4782-04 H01-4783-04 H01-4784-04 H10-1573-02	CARTON BOX CARTON BOX CARTON BOX CARTON BOX POLYSTYRENE FOAMED FIXTURE	KPUMH UEXE T E	

E: Scandinavia & Europe H:Audio Club K: USA

P: Canada

∆ Indicates safety critical component.

S: South Africa

U: PX(Far East, Hawaii)

T: England (KR-910L)

* New Parts
Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht gellefert.

Γ	Ref.	No.	Address		Parts No.	Description	Desti- nation	Re- marks
	無	番号	位置	Parts 新	部品番号	部 品 名 / 規 格		備考
					H12-0091-04 H20-0462-04 H25-0078-04	PACKING FIXTURE PROTECTION COVER PROTECTION BAG		
	17 18 19 19		3B 1B 1B 1B		J02-0343-05 J19-0507-05 J19-0564-05 J19-0564-05 J42-0083-05	F00T ANTENNA H0LDER (BAR) ANTENNA H0LDER (L00P) ANTENNA H0LDER (L00P) BUSHING	TE UEXE KPUMH KPUMH	
	20 20		1B 1B		J42-0083-05 J42-0085-05	BUSHING BUSHING	<u>UE</u> TEE	
	21A 21B 22 23 24		3A, 3B 3B 3A 3A 3A 3A		K27-0601-04 K27-0602-04 K27-0711-14 K29-0456-04 K29-0457-04	KNOB KNOB(LW) KNOB(VOLUME) KNOB(TONE)	TE	
	25 26		3A 3A		K29-0487-04 K29-1176-04	KN®B(TUNING) KN®B ASSY(P®WER)		
	27 27 27 27 27		1A 1A 1A 1A 1A		L01-2301-05 L01-2302-05 L01-2305-05 L01-2305-05 L01-2306-05	POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER POWER TRANSFORMER	K T UMH <u>UE</u> X E <u>E</u>	
7	27		1A		LD1-2307-d5	POWER TRANSFORMER	P	1,675
	28 29 30 31		1B 2B 1A,1B 3B		ND8-D128-D5 ND9-D292-D5 ND9-D377-D5 N29-D033-D5	SCREW SCREW SCREW PUSH REVET		
Δ Δ Δ	32 32 33		1B 1B 2A		\$31-2050-05 \$31-2050-05 \$40-1067-05	SLIDE SWITCH SLIDE SWITCH PUSH SWITCH(POWER)	XEE UMH <u>UE</u>	
	34 34 35 36 37		1B 1B 1B 1B 1A		T90-0104-15 T90-0104-15 T90-0112-05 T90-0121-05 T90-0122-05	LØØP ANTENNA LØØP ANTENNA BAR ANTENNA FEEDER ANTENNA ANTENNA ADAPTØR	UEXE KPUMH TE	
	015 015 015 017 017	*16 *16 *18			2SA769 2SB633 2SB633 2SC1827 2SD613	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	P KUMHE UEXTE P KUMHE	
	Q17	, 18			2SD613	TRANSISTOR	<u>UEXTE</u>	
			7	_r		(05-1940-10) TCERAMIC 0.01UF Z	1	T
	C2 C3 C6 C9 C11	,7 ,12			CK45F1H103Z CK45F1H103Z CK45F1H103Z CK45B1H331K CK45F1H103Z	CERAMIC 0.010F Z CERAMIC 0.01UF Z CERAMIC 0.01UF Z CERAMIC 330PF K CERAMIC 0.01UF Z	E	
	C25 C25 C25 C29 C29	,26 ,26 ,30			C91-0186-05 C91-0187-05 C91-0187-05 C91-0187-05 C91-0188-05	CERAMIC 0.001UF K CERAMIC 0.0015UF K CERAMIC 0.0015UF K CERAMIC 0.0015UF K CERAMIC 0.0018UF K	XTEE KPUMH UE XTEE KPUMH	

E: Scandinavia & Europe H:Audio Club K: USA

P: Canada

▲Indicates safety critical component.

S: South Africa

UE : AAFES(Europe)

U: PX(Far East, Hawaii)

X: Australia M: Other Areas

T: England (KR-910L)

E: Scandinavia & Europe (KR-910L)

PARTS LIST

* New Parts

Parts without **Parts No.** are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne **Parts No.** werden nicht geliefert.

Ref. No.	Address		Parts No.	Des	scription		Desti-	Re-
参照番号		Parts 新	部品番号	部品	名/規	格		marks 備考
C29 ,30 C31 C32 C36 C36			C91-0188-05 C91-0141-05 CQO9FS1H361J CC45SL1H221J CC45SL1H470J	CERAMIC POLYSTY CERAMIC	0.0018UF 0.047UF 360PF 220PF 47PF	K M J J	UE TEE KPUMH	
036 037 038 039 040			CC45SL1H470J C91-0139-05 CK45F1H223Z CC45SL1H100D C092M1H152K	CERAMIC CERAMIC CERAMIC	47PF D. 01UF O. 022UF 10PF O. 0015UF	J M Z D K	KPUMH TEL TEL TEL TEL TEL TEL TEL TEL TEL TEL	
040 041 041 042 042			C092M1H152K CC45SL1H080D CC45SL1H080D CC45UJ1H12OJ CC45UJ1H12OJ	CERAMIC CERAMIC CERAMIC	0.0015UF 8PF 8PF 12PF 12PF	K D D J J	NE KPUMH NEXE KPUMH UEXE	
C42 C43 C44 C45 C46			CC45UJ1HO6OD CQO9FS1H331J CC45CH1H39OJ CQO9FS1H131J C91-O141-O5	POLYSTY CERAMIC POLYSTY	6PF 330PF 39PF 130PF J. 047UF	D J J M	XTEE TE TE TE TE	
C4B ,49 C4B ,49 C49 C52 C54 ,55			C91-0139-05 C91-0139-05 C91-0141-05 CK45B1H102K C91-0139-05	CERAMIC CERAMIC CERAMIC	0.01UF 0.01UF 0.047UF 0.001UF 0.01UF	M M M K M	KPUMH UEXE TE	
C56 C59,60 C62 C63 C63 C64 TC1,2	2B 2B		CEO4BW1HR47M C91-0139-05 CK45F1H223Z C91-0139-05 C91-0139-05 C91-0141-05 C05-0303-05 E20-0232-05 E20-0439-05	CERAMIC (CERAMIC CERAMIC CERAMIC CERAMIC	D	50WV M Z M M M	KPUMH UEXE TE E UEXTE	
CF1 CF1 ,2 CF1 ,2 CF2 CF3			L72-0126-05 L72-0136-05 L72-0136-05 L72-0131-05 L72-0099-05	CERAMIC FILTE CERAMIC FILTE CERAMIC FILTE CERAMIC FILTE CERAMIC FILTE	R R R		TEE KPUMH UEX TEE	
L1 L2 L2 L3 L4			L40-1092-45 L31-0458-05 L31-0458-05 L32-0255-05 L32-0256-05	FIXED INDUCTOR MW RF COIL MW RF COIL MW DSC COIL LW DSC COIL	R(1.OUH)		KPUMH UEXE TE	
L5 L6 L7 L8 L9			L79-0119-05 L30-0316-05 L30-0317-05 L30-0362-05 L40-1021-45	LC FILTER FM IFT FM IFT AM IFT FIXED INDUCTOR	R		T <u>E</u> KPUMH	
L9 L9 L10 L11 L12			L40-1021-45 L40-1035-05 L79-0125-05 L79-0140-05 L40-1092-41	FIXED INDUCTOR FIXED INDUCTOR LC FILTER LC FILTER FIXED INDUCTOR	R)	UEXE TE TEE TE	
L13			L40-1092-45	FIXED INDUCTOR	२		Ε	

E: Scandinavia & Europe H:Audio Club K: USA

U: PX(Far East, Hawaii)

S: South Africa

UE : AAFES(Europe) X: Australia M: Other Areas

T: England (KR-910L)

E: Scandinavia & Europe (KR-910L)

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address New	Parts No.	Description	Desti- Re- nation marks
参照者号	位、置 新	部品番号	部 品 名 / 規 格	仕 向 備考
R1 R17 R32 VR1 VR2		RD14GB2E101J RD14GB2E470J RD14GB2E560J R12-3302-05 R12-4302-05	FL-PROOF RD 100 J 2E FL-PROOF RD 47 J 2E FL-PROOF RD 56 J 2E TRIMMING POT. (10KB) TRIMMING POT. (50KB)	те <u>є</u>
\$1 \$2 •3		\$40-6014-05 \$42-2045-05	PUSH SWICH PUSH SWITH	T <u>E.</u>
D1 ,2 D1 ,2 IC1 IC2 IC3		1S1555 1S2076 AN377 HA1196-01 LA1130	DINDE DINDE IC IC IC	
01 02 02 02 03 -4		2SC1675 2SC1684 2SC2320 2SC945(A) 2SC1684	TRANSISTÖR TRANSISTÖR TRANSISTÖR TRANSISTÖR TRANSISTÖR	TEE TEE TEE
03 -4 03 -4 06 06 06		25C2320 25C945(A) 25A564A 25A733(A) 25A999	TRANSISTER TRANSISTER TRANSISTER TRANSISTER TRANSISTER TRANSISTER	
Q7 Q7		25K136 25K163	FET FET	TE TE
101 101 101 101	2B 2B 2B 2B	WD2-0061-05 WD2-0061-05 WD2-0062-05 WD2-0503-05	FRONT-END FRONT-END FRONT-END FRONT-END	KPUMH UEX TE E
			(X09-1670-11)	
PL1 -4 PL5 -8		B30-0372-05 B30-0374-05	LAMP LAMP	
C1 +2 C3 +4 C3 +4 C3 +4 C5 +6		CE04AW1E3R3M CC45SL1H101J CC45SL1H101J CC45SL1H221J C092M1H123J	LL-ELEC 3.3UF 25WV CERAMIC 100PF J CERAMIC 100PF J CERAMIC 220PF J MYLAR 0.012UF J	KPUMH UEXT EE
C7 +8 C9 +10 C9 +10 C9 +10 C13 +14		CQ92M1H332J CC45SL1H101J CC45SL1H101J CK45B1H222K CQ92M1H183K	MYLAR 0.0033UF J CERAMIC 100PF J CERAMIC 100PF J CERAMIC 0.0022UF K MYLAR 0.018UF K	KPUMH UEXT EE
C15 ,16 C17 ,18 C19 ,20 C25 ,26 C27 ,28		CE04AW1H010M CC45SL1H181J CC45SL1H221J CC45SL1H470J CC45SL1H220J	LL-ELEC 1UF 50WV CERAMIC 180PF J CERAMIC 220PF J CERAMIC 47PF J CERAMIC 22PF J	
C33 ,34 C35 ,36 C37 ,38 C39 ,40 C41 ,42		CQ92M1H473M CEO4BW1C100M CQ92M1H183K CQ92M1H823K CQ92M1H472K	MYLAR 0.047UF M NP-ELEC 10UF 16WV MYLAR 0.018UF K MYLAR 0.082UF K MYLAR 0.0047UF K	
C43 ,44 C49 ,50		CQ92M1H223K CK45B1H561K	MYLAR 0.022UF K CERAMIC 560PF K	E <u>E</u>

E: Scandinavia & Europe H:Audio Club K: USA

S: South Africa

U: PX(Far East, Hawaii)

UE : AAFES(Europe) X: Australia M: Other Areas

Hawaii)

T: England (KR-910L)

E: Scandinavia & Europe (KR-910L)

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address		Parts No.	Description	Desti-	Re-
参照者号	位置	Parts 新	部品番号	部品名/規格	nation 仕 斥	mark 開考
C54 +55 C59 -61 C63 +64 C65 +66 C67 +68			C90-0472-05 CK45E2H103P CK45F1H103Z CC45SL1H680J CC45SL1H221J	ELECTR® 4700UF 35WV CERAMIC 0.01UF P CERAMIC 0.01UF Z CERAMIC 68PF J CERAMIC 220PF J	E <u>E</u> KPE <u>E</u>	
069 -72			CK45B1H561K	CERAMIC 560PF K	E <u>E</u>	
202 203 204	2A 2B 1B		E11-0085-05 E13-0433-05 E20-0815-05	PHONE JACK PHONO JACK TERMINAL BOARD(SPEAKER)		
F1 F1 F1 F1 F2			F05-2521-05 F05-2521-05 F05-2528-05 F05-2529-05 F05-1227-05	FUSE (2, 5A) FUSE (2, 5A) FUSE (2, 5A) FUSE (2, 5A) FUSE (1, 25A)	UMHX UE EE KP TEE	
F2 F2 F3 F3 F3			F05-1521-05 F05-1521-05 F05-1023-05 F05-1023-05 F05-1024-05	FUSE (1.5A) FUSE (1.5A) FUSE (1.0A) FUSE (1.0A) FUSE (1.0A)	UMHX UE UMHX UE KP	
F3			F06-1021-05	FUSE (1.0A)	TEE	16.7
**************************************			J13-0041-05 J13-0041-05 J13-0054-05	FUSE CLIP FUSE CLIP FUSE CLIP	KPUMH UEX TEE	
R29 R40 R43 •44 R51 -54 R55 -58			RD14GB2E221J RD14GB2E221J RD14GB2E101J RD14GB2E331J R92-0166-05	FL-PR00F RD 220 J 2E FL-PR00F RD 220 J 2E FL-PR00F RD 100 J 2E FL-PR00F RD 330 J 2E METAL-PLATE 0.22 K 3I		
R59 ,60 R59 ,60 R59 ,60 R71 ,72 R75 ,76			RS14GB3A4R7J RS14GB3A4R7J R92-0238-05 RS14GB3A271J RD14GB2E820J	FL-PR00F RS 4.7 J 36 FL-PR00F RS 4.7 J 36 RN 4.7 J 36 FL-PR00F RC 270 J 36 FL-PR00F RD 82 J 28	XTEE KP	
R102 R103 R104 R104 R104			RD14GB2E4R7J RS14GB3D221J RS14GB3D560J RS14GB3D560J R92-0239-05	FL-PR00F RD 4.7 J 25 FL-PR00F RS 220 J 30 FL-PR00F RS 56 J 30 FL-PR00F RS 56 J 31 RN 56 J 31	D UE	
R105 R106,107 R108 R109 VR1			RS14GB3D821J RD14GB2E101J R92-0173-05 RC05GF2H272K R06-5068-05	FL-PR00F RS 820 J 31 FL-PR00F RD 100 J 2E RC 2.2M M 2H RC 2.7K K 2F VARIABLE RESISTOR(100K)VOLUM	1	
VR2 VR3 ,4			R01-5034-05 R06-5069-05	VARIABLE RESIST®R(200K)BALAN VARIABLE RESIST®R(100K)T®NE	ICE	
S1 S2 S3			\$40-2126-05 \$42-2046-05 \$42-4016-05	PUSH SWITCH (LØUDNESS) PUSH SWITCH (SP SELECTØR) PUSH SWITCH (INPUT SELECTØR:		
D1 -4 D1 -4 D5 -8 D9			GP20DL S2V20*1 W06B XZ-122	DIADE DIADE DIADE		

E: Scandinavia & Europe H:Audio Club K: USA

P: Canada

△ Indicates safety critical component.

S: South Africa

U: PX(Far East, Hawaii)

UE: AAFES(Europe) X: Australia M: Other Areas

T: England (KR-910L)

* New Parts
Parts without Parts No. are not supplied.
Les articles non mentionnes dans le Parts No. ne sont pas fournis.
Teile ohne Parts No. werden nicht geliefert.

Ref. No.	Address Ne	ts	Description 部 品 名 / 規 格	Desti- Re- nation marks 仕 向 備考
D10 D10 IC1 IC1 IC1		1S1555 1S2076 AN6552 RC4558P UPC4558C	DINDE DINDE IC IC IC	
IC2 Q1 -4 Q1 -4 Q5 -8 Q5 -8		UPC78M12H 25A921 25A992 25C1845(F,E,U) 25C198D(5,T,U)	IC TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR	
09 ,10 011 ,12 013 ,14 019		2SC1845(E+U) 2SC2003 2SA954 2SC2320 2SC828A	TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR TRANSISTØR	
Q19		2SC945(A)	TRANSISTOR	
		·		
	,			

E: Scandinavia & Europe H:Audio Club K: USA

P: Can

 Δ Indicates safety critical component.

S: South Africa

U: PX(Far East, Hawaii)

T: England (KR-910L)

E: Scandinavia & Europe (KR-910L)